RAW SEQUENCE LISTING

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Application Serial Number:

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RAW SEQUENCE LISTING DATE: 05/03/2006
PATENT APPLICATION: US/10/637,159A TIME: 09:52:38

Input Set : E:\US 10637,159 SEQUENCE LISTING.ST25.txt
Output Set: N:\CRF4\05032006\J637159A.raw

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3 <110> APPLICANT: Fermalogic, Inc.
             Weber, J. Mark
     4
              Reeves, Andrew R
     5
             Brikun, Igor A
             Cernota, William H
     9 <120> TITLE OF INVENTION: Process of Increasing Cellular Production of Biologically
Active
              Compounds
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     12 <130> FILE REFERENCE: 1070.003
     14 <140> CURRENT APPLICATION NUMBER: US 10/637,159A
     15 <141> CURRENT FILING DATE: 2003-08-08
     17 <160> NUMBER OF SEQ ID NOS: 3
     19 <170> SOFTWARE: PatentIn version 3.3
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     24 <213> ORGANISM: Aeromicrobium erythreum
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     31 ctgcgcggtc cctacccggc catgtacacg acccagccgt ggacgatccg ccagtacgcc
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     33 gggttetega eegeegagga gtegaaegeg ttetaeegee geaaeetege egeeggeeaa
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     35 aagggeetet eggtegeett egacetegeg aegeaeegeg getaegaete egaceaeeeg
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     37 cgcgtgaagg gcgacgtcgg catggccggc gtcgcgatcg actcgatcta cgacgcccgc
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     39 cagetetteg aeggeatece getegaegag atgagegtet egatgaeeat gaaeggegeg
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     45 atctaccege eggegeegte gatgeggate atcteegaca tettegegta caeggeggeg
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     53 ggcatgaact tctacatgga gatcgcgaag atgcgcgccg cccgtgccct gwgggcccgg
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     55 ctcgtgcgcg acttcgaccc gaagaacccc aagagcctca gcctgcgcac gcacagccag
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     57 acateggget ggageeteac egegeaggae gtgtteaaca aegteeageg cacetgeate
                                                                              960
     59 gaggcgatgg ccgccacgca gggccacacc cagagcctgc acacgaacgc gctcgacgag
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     61 gcgatcgcgc tgccgacgga cttcagcgcg cggatcgccc gcaacacgca gctgctgctg
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     63 cagcaggagt cgggcaccac cggcgtcatc gacccgtggg gcggctccta ctacgtcgag
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     65 aagetgaege aegaeetege gaaeegegee tgggegeaea teeaggaggt egagaaggee
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     67 ggcggcatgg ccaaggccat cgaggcgggc atccccaaga tgcgcgtcga ggaggcggcc
                                                                             1260
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     69 georgeacge aggeacgeat egacteegge cageaggeeg teateggegt caacacetae
     71 egectegeeg acgaggacce getegacgtg etcaaggteg acaacgegte ggtetacgee
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|--------|------------|--------------|--------------|------------|--------------|------------|--------------|
| | | | | | aggtcatcga | | 1680 |
| | | | | | tggccaagat | | 1740 |
| | | | | | ccgacatggg | | 1800 |
| | | | | | agcaggccgt | | 1860 |
| | | | | | tgacgctcct | | 1920 |
| | | | | | tcgtcatggg | | 1980 |
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| | | ttcgtccgag g | | | | | 2124 |
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| 110 | tcgggcagcg | ttgggtcctg | gccacgggtg | cgcatgatcg | , tgctcctgtc | gttgaggacc | 180 |
| . 112. | cggctaggct | ggcggggttg | gottactggt | tagcagaatg | g aatcaccgat | acgcgagcga | 240 |
| 114 | acgtgaagcg | actgctgctg | caaaacgcct | gegaeetgag | , caacaacatg | aatggtcttc | 300- |
| 116 | ggtttccgtg | tttcgtaaag | tctggaaacg | cggaagtcag | g cgccctgcac | cattatgttc | 360 |
| | | | | | g cagatccctg | | 420 |
| 120 | cacaaccgtt | aaaccttaaa | agctttaaaa | gccttatata | ttctttttt | tcttataaaa | 480 |
| 122 | cttaaaacct | tagaggctat | ttaagttgct | gatttatatt | : aattttattg | ttcaaacatg | 540 |
| 124 | agagcttagt | acgtgaaaca | tgagagctta | gtacgttagc | catgagagct | tagtacgtta | 600 |
| 126 | gccatgaggg | tttagttcgt | taaacatgag | agcttagtac | gttaaacatg | agagcttagt | 660 |
| | | | | | : gaactgctga | | 720 |
| 130 | tatgtcgggt | gcggagaaag | aggtaatgaa | atggcatccg | gatctgcatc | gcaggatgct | 780 |
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| | | | | | g ccgaatgtct | | 1380 |
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| | | | | | g ctgtcgctgc | | 1500 |
| | | | | | tcgacgtcct | | 1560 |
| | _ | | | | g atccgctgca | | 1620 |
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| | | | | | g cggatggctg | | 1740 |
| | | | | | gctccccgct | | 1800 |
| | | | | | cttgatcaga | | 1860 |
| | | | | | cagtgcaatt | | 1920 |
| | | | | | aattctcatg | | 1980 2040 |
| 1/2 | Laccatogat | aayuullaat | geggtagttt | accacageta | a aattgctaac | gcagccaggc | 2040 |

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| 174 | accgtgtatg | aaatctaaca | atgcgctcat | cgtcatcctc | ggcaccgtca | ccctggatgc | 2100 |
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| 178 | cgacagcatc | gccagtcact | atggcgtgct | gctagcgcta | tatgcgttga | tgcaatttct | 2220 |
| 180 | atgcgcaccc | gttctcggag | cactgtccga | ccgctttggc | cgccgcccag | tcctgctcgc | 2280 |
| 182 | ttcgctactt | ggagccacta | tcgactacgc | gatcatggcg | accacacccg | tcctgtggat | 2340 |
| 184 | cctctacgcc | ggacgcatcg | tggccggcat | caccggcgcc | acaggtgcgg | ttgctggcgc | 2400 |
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| | | | cggcggcggt | | | | 2580 |
| 192 | cttcctaatg | caggagtcgc | ataagggaga | gcgtcgaccg | atgcccttga | gagccttcaa | 2640 |
| 194 | cccagtcagc | tccttccggt | gggcgcgggg | catgactatc | gtcgccgcac | ttatgactgt | 2700 |
| 196 | cttctttatc | atgcaactcg | taggacaggt | gccggcagcg | ctctgggtca | ttttcggcga | 2760 |
| 198 | ggaccgcttt | cgctggagcg | cgacgatgat | cggcctgtcg | cttgcggtat | tcggaatctt | 2820 |
| 200 | gcacgccctc | gctcaagcct | tcgtcactgg | tcccgccacc | aaacgtttcg | gcgagaagca | 2880 |
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| 204 | gcgaggctgg | atggccttcc | ccattatgat | tcttctcgct | tccggcggca | tcgggatgcc | 3000 |
| 206 | cgcgttgcag | gccatgctgt | ccaggcaggt | agatgacgac | catcagggac | agcttcaagg | 3060 |
| 208 | atcgctcgcg | gctcttacca | gcctaacttc | gatcattgga | ccgctgatcg | tcacggcgat | 3120 |
| 210 | ttatgccgcc | teggegagea | catggaadgg | gttggcatgg | attgtaggcg | ccgccctata | 31.80, |
| 212 | cctigtotyc | cteccegegt | tgcgtcgcgg | tgcatggagc | cgggccacct | cgacctgaat | 32401 |
| 214 | ggaagccggc | ggcacctcgc | taacggattc | accactccaa | gaattggagc | caatcaattc | 3300 |
| 216 | ttgcggagaa | ctgtgaatgc | gcaaaccaac | ccttggcaga | acatatccat | cgcgtccgcc | 3360 |
| 218 | atctccagca | gcgcacgcgg | cgcatctcgg | gcacgttggg | tcctggaatt | cgagctcggt | 3420 |
| 220 | accagcccga | cccgagcacg | cgccggcacg | cctggtagat | gtcggaccgg | agttcgaggt | 3480 |
| 222 | acgcggcttg | caggtccagg | aaggggacgt | ccatgcgagt | gtccgttcga | gtggcggctt | 3540 |
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| 226 | ctggcgagag | gtgcgggagg | atctgaccga | cccggtccac | acgtggcacc | gcgatgctgt | 3660 |
| 228 | tgtgggctgg | acaatcgtgc | cggttggtag | gatcctctag | agtcgacgca | tgcaagcttc | 3720 |
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| | | | cgaccacgcc | | | | 360 |
| | | | gacgcacgac | | | | 420 |
| | | | cgtcgacgac | | | | 480 |
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| 259 | ggcatcgagt | ggtga | | | | | 615 |
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VERIFICATION SUMMARY

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